For this tutorial we are going to show you how to set up a single-time scenario in the USGS Shoreline Management Tool. First, start up ArcMap. Once in ArcMap, select the shoreline management tool icon from your toolbar. If you haven't yet installed the tool, please refer to the Installation tutorial video.

Now, depending on whether this is your first time running the application, you may or may not need to connect to the shoreline tool directory. Let's do it here, just in case. Click here to change the Shoreline Directory. Then you just need to navigate to wherever you downloaded and are storing your ShorelineDirectory. Single click there. Choose Select.

Now let's run this scenario. Operating the shoreline management tool is easy. Each step has been color coded for your convenience. All you need to do is follow the yellow box.

Click on define the "Input GIS layers." A new popup window will appear. This is where you choose your resolution for your digital elevation model. or DEM, as well as your parcel or study area data sets. For this exercise, let's go with a 5-meter resolution for our DEM. And then we are going to choose our parcel layer from ArcCatalog. You'll see a geodatabase populate the window and you're going to scroll over and select "Parcels." Select…that will take a few seconds to populate. Done. And next, we are going to select the "Stage, Parcels, and Habitats for this Scenario" by clicking here. A new popup window will appear and this will give us the option of doing a "Single-Time Scenario" or a "Time-Series Scenario."

In this situation we want to do a single-time scenario. We'll then have to choose what elevation we want to explore. And let's go with 4138.8 for the elevation. We're going to set the vertical datum for the scenario as a NAVD88. Click here for "Done with Stage."

Now we need to select which parcel group we want to explore. So click there. And I'm just curious what is going on in parcel group 9, right there. Reopen the shoreline management tool. We are done selecting parcels.

Okay. Let's explore a particular habitat. Say you are looking for the best environment for an aquatic plant that flourishes in shallow water. So we'll name this "shallow_plant." And say we need a minimum depth of 1 feet, maximum depth of 3 feet. Zero to 25 percent slope. With a minimum aspect of 10 and a maximum aspect of 350 degrees. We are going to include flat areas. And then we are going to save that habitat and add it to our current parcel group. We are not going to do any more, so we are "Done with Habitats." And we are going to finalize current group settings. We'll just get a warning message that will pop up and we're going to exit this stage, parcels, and habitat selection. Exit there.

And now we are almost done. After putting all the work into creating this scenario, let's make sure to save it. We'll name it "single_scenario1." And…let's put this into a folder called "Single_scenarios." Create that output folder. And then we are going to run the shoreline tool.

This may take some time depending on what you defined and how much data needs to be processed. But once it's done, you'll have your results. And there you have it. That is you parcel group for inundation and habitat for shallow water plants.

Thank you for using the shoreline management tool. If you have any questions please refer to the user manual or check out more information on the shoreline management tool website at the links posted here.